

**AMENDMENTS TO THE CLAIMS:**

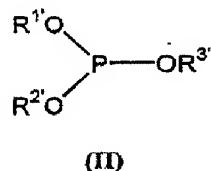
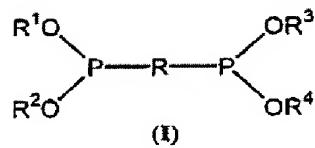
This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS:**

1. (Currently Amended) An adhesive silicone elastomer composition which can be crosslinked under hot conditions by polyaddition (hydrosilylation), this composition being of the type of those comprising:

- ◆ α/ at least one PolyOrganosiloxane (POS) carrying ethylenic and/or acetylenic unsaturation(s) {POS comprising  $\equiv\text{Si}-[\text{unsaturation}]$  units};
- ◆ β/ at least one polyorganosiloxane (POS) carrying  $\equiv\text{Si}-\text{H}$  units;
- ◆ γ/ a catalytic combination comprising:
  - ~ γ.1 at least one metal catalyst (preferably based on platinum)
  - ~ γ.2 and at least one crosslinking inhibitor;
- ◆ δ/ a filler;
- ◆ ε/ at least one adhesion promoter;
- ◆ ρ/ at least one POS resin;
- ◆ λ/ at least one agent for stability toward heat;
- ◆ φ/ optionally at least one other functional additive;

said composition being a single-component composition wherein the crosslinking inhibitor γ.2 is selected from the group of compounds of following formula (I) or (II):



in which:

R, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>1'</sup>, R<sup>2'</sup> and R<sup>3'</sup>, which are identical or different, represent a linear, branched or cyclic alkyl alkylene radical or a substituted or unsubstituted aryl arylene radical, in particular:

- i. a linear or branched alkyl alkylene radical having in particular from 2 to 30 carbon atoms (C), ~~preferably from 2 to 12 C,~~
- ii. an alkyl alkylene radical comprising one or more rings, in particular 1 or 2, it being possible for a ring to have in particular from 4 to 14 C, ~~preferably from 5 to 8 C,~~ or
- iii. an aryl arylene or alkylaryl alkylarylene radical comprising one or more fused or nonfused aromatic rings, in particular 1 or 2 rings, it being possible for a ring to comprise from 4 to 14 C, ~~preferably from 6 to 8 C,~~ optionally substituted by 1 or more, in particular from 1 to 2, linear or branched alkyl(s) alkylene(s) having in particular from 1 to 12 C, ~~preferably from 4 to 12 C.~~

2. (Currently Amended) The composition as claimed in claim 1, wherein the R radical of the formula (I) of the inhibitor  $\gamma.2$  is a cyclic alkyl alkylene or an aryl

arylene radical, preferably the biphenyl radical.

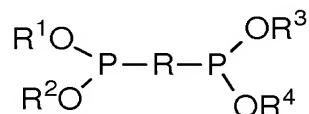
3. (Currently Amended) The composition as claimed in claim 1, wherein the R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>1'</sup>, R<sup>2'</sup> and R<sup>3'</sup> radicals of the formulae (I) and (II) of the inhibitor  $\gamma.2$  are cyclic alkyls alkylenes, aryls arylenes or alkylaryls alkylarylenes, preferably substituted phenyls.

4. (Currently Amended) The composition as claimed in claim 1, An adhesive silicone elastomer composition which can be crosslinked under hot conditions by polyaddition (hydrosilylation), this composition being of the type of those comprising:

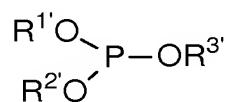
- ◆  $\alpha$ / at least one PolyOrganoSiloxane (POS) carrying ethylenic and/or acetylenic unsaturation(s) {POS comprising  $\equiv$ Si-[unsaturation] units};
- ◆  $\beta$ / at least one polyorganosiloxane (POS) carrying  $\equiv$ Si-H units;
- ◆  $\gamma$ / a catalytic combination comprising:
  - $\sim \gamma.1$  at least one metal catalyst
  - $\sim \gamma.2$  and at least one crosslinking inhibitor;
- ◆  $\delta$ / a filler;
- ◆  $\epsilon$ / at least one adhesion promoter;
- ◆  $\rho$ / at least one POS resin;
- ◆  $\lambda$ / at least one agent for stability toward heat;
- ◆  $\varphi$ / optionally at least one other functional additive;

said composition being a single-component composition wherein the crosslinking

inhibitor  $\gamma$ .2 is selected from the group of compounds of following formula (I) or (II):



(1)



(II)

### in which:

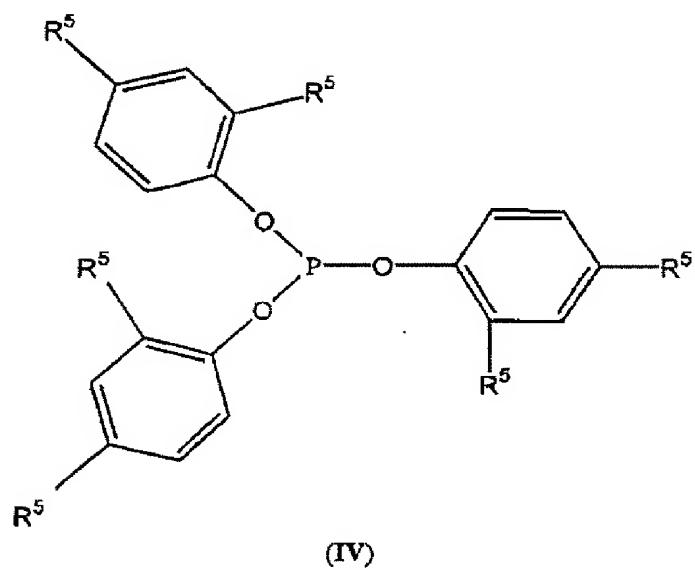
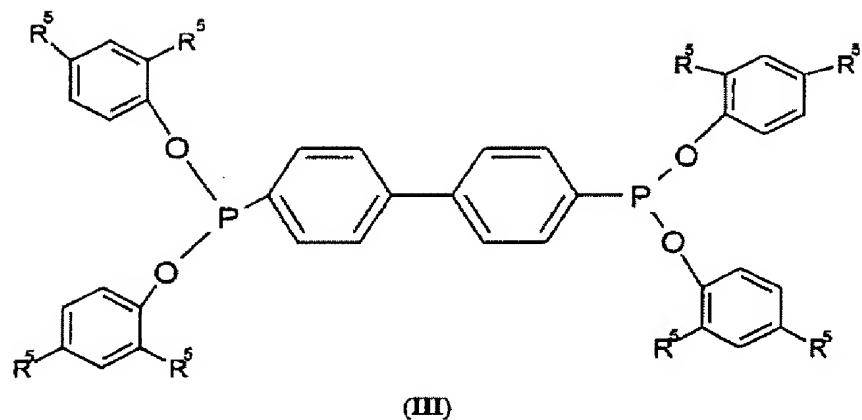
R, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>1'</sup>, R<sup>2'</sup> and R<sup>3'</sup>, which are identical or different, represent a linear, branched or cyclic alkylene radical or a substituted or unsubstituted alkylene radical.

in particular:

- i. a linear or branched alkylene radical having in particular from 2 to 30 carbon atoms (C),
  - ii. an alkylene radical comprising one or more rings, in particular 1 or 2, it being possible for a ring to have in particular from 4 to 14 C, or
  - iii. an alkylene or alkylarylene radical comprising one or more fused or nonfused aromatic rings, in particular 1 or 2 rings, it being possible for a ring to comprise from 4 to 14 C, optionally substituted by 1 or more, in particular from 1 to 2, linear or branched alkylene(s) having in particular from 1 to 12 C

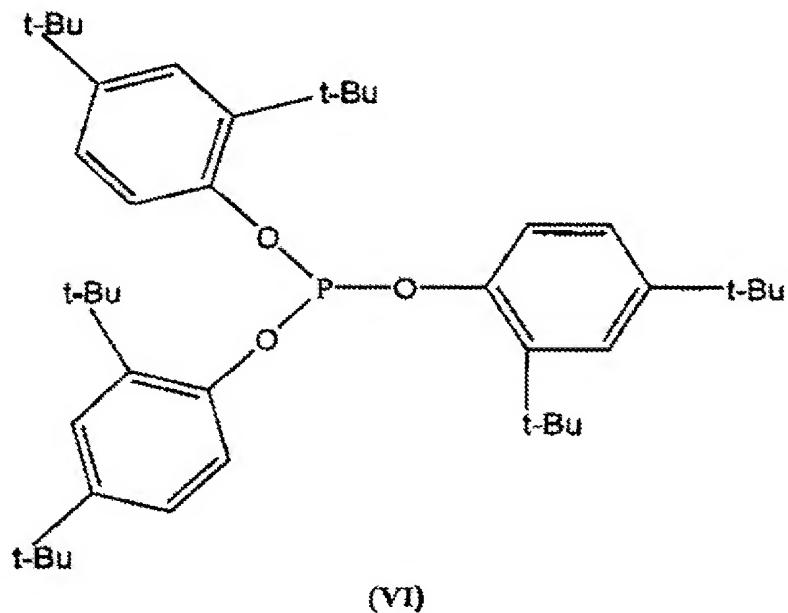
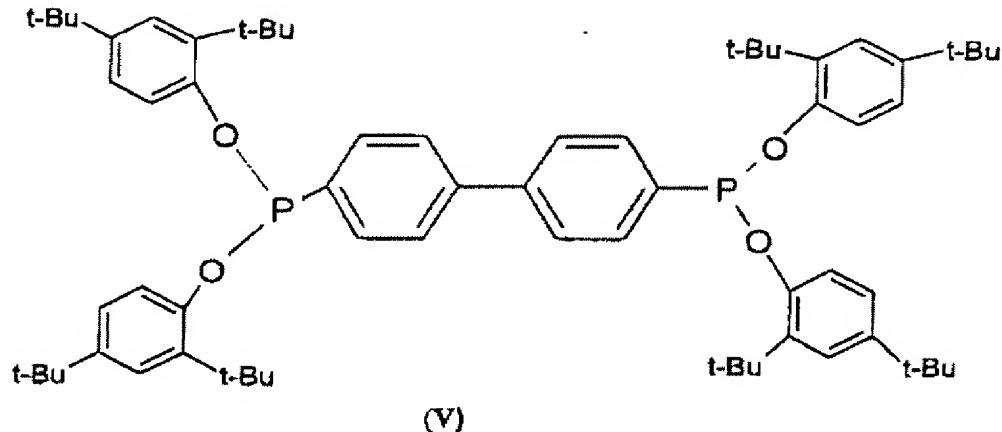
wherein the inhibitor  $\gamma$ .2 corresponds to either of the following formulae (III) and/or

(IV):



in which the R<sup>5</sup> radicals, which are identical or different, preferably identical, are linear or branched alkyls having in particular from 1 to 12 C.

5. (Previously Presented) The composition as claimed in claim 1, wherein the inhibitor  $\gamma$ .2 corresponds to the formula (V) or (VI):



6. (Previously Presented) The composition as claimed in claim 1,  
wherein the catalyst  $\gamma\cdot 1$  is a platinum catalyst.
7. (Currently Amended) The composition as claimed in claim 1, wherein  
the phosphorus of  $\gamma\cdot 2$ /platinum of  $\gamma\cdot 1$  ratio by weight is such that:
- $P/Pt \geq 1$ ,

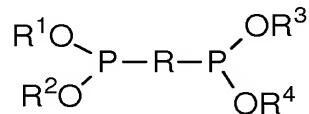
- preferably,  $5 \geq P/Pt \geq 1$ ,
- and, more preferably still,  $4 \geq P/Pt \geq 1$ .

8. (Currently Amended) The catalytic composition as claimed in claim 6, wherein the catalyst  $\gamma.1$  is a platinum/unsaturated siloxane complex, preferably a platinum/vinylsiloxane complex and more preferably still a Karstedt complex.

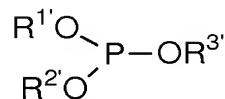
9. (Currently Amended) The composition as claimed in claim 8, An adhesive silicone elastomer composition which can be crosslinked under hot conditions by polyaddition (hydrosilylation), this composition being of the type of those comprising:

- ◆ a/ at least one PolyOrganoSiloxane (POS) carrying ethylenic and/or acetylenic unsaturation(s) {POS comprising  $\equiv Si-[unsaturation]$  units};
- ◆  $\beta$ / at least one polyorganosiloxane (POS) carrying  $\equiv Si-H$  units;
- ◆  $\gamma$ / a catalytic combination comprising:
  - ~  $\gamma.1$  at least one metal catalyst
  - ~  $\gamma.2$  and at least one crosslinking inhibitor;
- ◆  $\delta$ / a filler;
- ◆  $\epsilon$ / at least one adhesion promoter;
- ◆  $\rho$ / at least one POS resin;
- ◆  $\lambda$ / at least one agent for stability toward heat;
- ◆  $\phi$ / optionally at least one other functional additive;

said composition being a single-component composition wherein the crosslinking inhibitor  $\gamma.2$  is selected from the group of compounds of following formula (I) or (II):



(1)



(II)

#### in which:

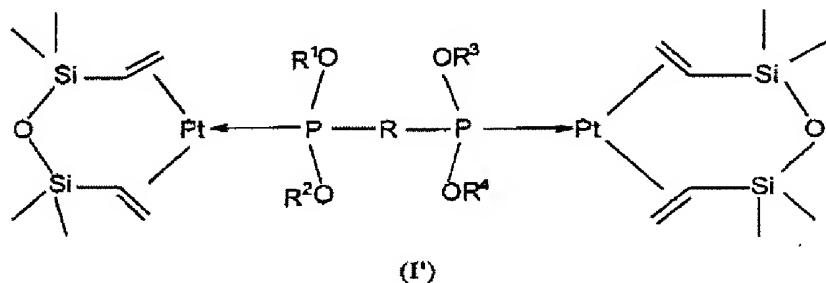
R, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>1'</sup>, R<sup>2'</sup> and R<sup>3'</sup>, which are identical or different, represent a linear, branched or cyclic alkylene radical or a substituted or unsubstituted alkylene radical,  
in particular:

- i. a linear or branched alkylene radical having in particular from 2 to 30 carbon atoms (C),
  - ii. an alkylene radical comprising one or more rings, in particular 1 or 2, it being possible for a ring to have in particular from 4 to 14 C, or
  - iii. an alkylene or alkylarylene radical comprising one or more fused or nonfused aromatic rings, in particular 1 or 2 rings, it being possible for a ring to comprise from 4 to 14 C, optionally substituted by 1 or more, in particular from 1 to 2, linear or branched alkylene(s) having in particular from 1 to 12 C.

wherein the catalyst  $\gamma$ .1 is a platinum/

unsaturated siloxane complex,

wherein the catalytic combination  $\gamma$  comprises the following chemical entity (I'):

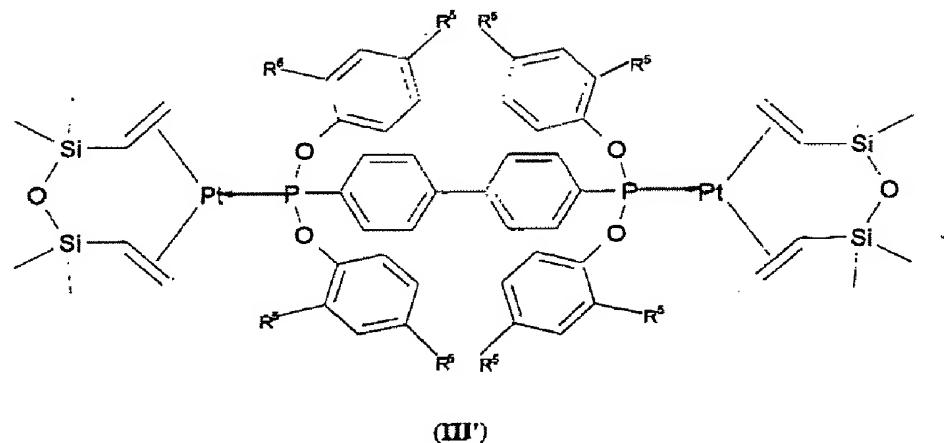


in which:

R, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup> and R<sup>4</sup>, which are identical or different, represent a linear, branched or cyclic alkyl alkylene radical or a substituted or unsubstituted aryl arylene radical, in particular:

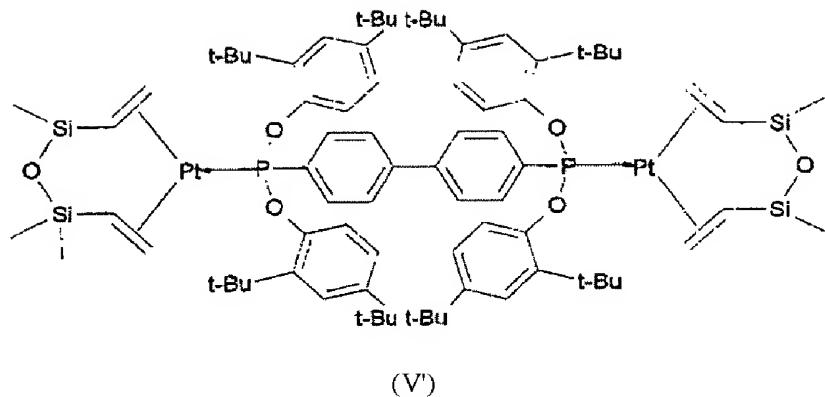
- i. a linear or branched alkyl alkylene radical having in particular from 2 to 30 carbon atoms (C), ~~preferably from 2 to 12 C~~,
- ii. an alkyl alkylene radical comprising one or more rings, in particular 1 or 2, it being possible for a ring to have in particular from 4 to 14 C, ~~preferably from 5 to 8 C~~ or
- iii. an aryl arylene or alkylaryl alkylarylene radical comprising one or more fused or nonfused aromatic rings, in particular 1 or 2 rings, it being possible for a ring to comprise from 4 to 14 C, ~~preferably from 6 to 8 C~~, optionally substituted by 1 or more, in particular from 1 to 2, linear or branched alkyl(s) having in particular from 1 to 12 C, ~~preferably from 4 to 12 C~~.

10. (Currently Amended) The composition as claimed in claim 9, wherein the catalytic combination  $\gamma$  comprises the following chemical entity (III'):



in which the  $R^5$  radicals, which are identical or different, preferably identical, are linear or branched alkyls having in particular from 1 to 12 C, ~~preferably from 4 to 12 C.~~

11. (Previously Presented) The composition as claimed in claim 10, wherein the catalytic combination  $\gamma$  comprises the following chemical entity (V'):



(V')

12. (Currently Amended) The composition as claimed in claim 1, wherein:

- ◆ the  $\alpha$  POS or POSSs comprise siloxyl units



and siloxyl units of formula:



- ◆ the  $\beta$  POS or POSSs comprise siloxyl units



and siloxyl units of formula:



in which formulae the various symbols have the following meaning:

- ⇒ the  $R^6$  symbols, which are identical or different, each represent a nonhydrolyzable group of hydrocarbon nature, it being possible for this radical to be:
- \* an alkyl radical having from 1 to 5 carbon atoms which can comprise from 1 to 6 chlorine atoms,
  - \* cycloalkyl radicals having from 3 to 8 carbon atoms which can

- comprise from 1 to 4 chlorine atoms,
- \* aryl or alkylaryl radicals having from 6 to 8 carbon atoms which can comprise from 1 to 4 chlorine atoms,
  - \* cyanoalkyl radicals having from 3 to 4 carbon atoms; methyl, ethyl, propyl, isopropyl, butyl, isobutyl, n-pentyl, t-butyl, chloromethyl, dichloromethyl,  $\alpha$ -chloroethyl,  $\alpha,\beta$ -dichloroethyl,  $\beta$ -cyanoethyl,  $\gamma$ -cyano-propyl, phenyl, p-chlorophenyl, m-chlorophenyl, 3,5-dichlorophenyl, trichlorophenyl, tetrachlorophenyl, o-, p- or m-tolyl, and xylyl, such as ~~2,3-dimethylphenyl or 3,4-dimethylphenyl, groups being preferred;~~ methyl and phenyl radicals being particularly preferred;
- $\Rightarrow$  the Z symbols represent a C<sub>2</sub>-C<sub>6</sub> alkenyl group (~~preferably a vinyl group~~);
- $\Rightarrow$  n = an integer equal to 0, 1, 2 or 3;
- $\Rightarrow$  x = an integer equal to 0, 1, 2 or 3;
- $\Rightarrow$  y = an integer equal to 0, 1 or 2;
- $\Rightarrow$  the sum x + y lies within the range from 1 to 3,
- $\Rightarrow$  w = an integer equal to 0, 1, 2 or 3.

13. (Currently Amended) The composition as claimed in claim 12, comprising:
- $\alpha/$  - at least one POS exhibiting, per molecule, at least two C<sub>2</sub>-C<sub>6</sub> alkenyl groups bonded to silicon;
  - $\beta/$  - at least one POS exhibiting, per molecule, at least two hydrogen atoms bonded to silicon;

- $\gamma$ / - a catalytic combination as defined in claim 12;
- $\epsilon$ / an adhesion promoter, ~~preferably a binary adhesion promoter and more preferably still an adhesion promoter consisting of:~~
  - ~~at least one alkoxylated organosilane comprising, per molecule, at least one  $C_2-C_6$  alkenyl group,~~
  - ~~at least one organosilicon compound comprising at least one epoxy radical;~~
- $\delta$ / an inorganic and/or microsphere and/or hollow and/or expanded and/or expandable inorganic filler;
- $\rho$ / optionally at least one POS resin carrying T and/or Q, optionally M and/or D, siloxyl units and alkenyl-comprising siloxyl units, ~~preferably vinyl-comprising siloxyl units of  $M^{Vi}$  and/or  $D^{Vi}$  type, resins of  $MM^{Vi}DD^{Vi}Q$  type being very particularly preferred;~~
- $\lambda$ / optionally at least one colorant;
- $\phi$ / optionally at least one other functional additive.

14. (Currently Amended) The composition as claimed in claim 12 which is an RTV composition wherein its POS  $\alpha$  and/or  $\rho$  constituent(s) is(are) chosen from alkenylsilyl POSS having a viscosity  $\eta$  at 25 °C such that:

$$200 \leq \eta \leq 200\,000 \text{ mPa}\cdot\text{s}$$

~~preferably,  $500 \leq \eta \leq 100\,000 \text{ mPa}\cdot\text{s}$ .~~

15. (Currently Amended) A process for the preparation of the composition

as claimed in claim 1:

comprising preparing the catalytic combination  $\gamma$ :

- either by mixing the inhibitor  $\gamma.2$  with a solution/dispersion of catalyst  $\gamma.1$ , ~~preferably in an vinyl-comprising polysiloxane oil,~~
  - or by mixing the catalyst  $\gamma.1$  in a dispersion of the inhibitor  $\gamma.2$  in a silicone oil, ~~preferably a vinyl-comprising silicone oil, with a viscosity of less than or equal to 100 000 mPa·s at 25°C;~~
- and further comprising:
- a) first of all mixing a portion of the constituents, with the exception of the catalytic combination,  $\gamma$ ;
  - b) heating, ~~preferably optionally~~ under vacuum;
  - c) cooling;
  - d) and then adding the remainder of the constituents, except for the catalytic combination  $\gamma$ , with stirring to the premix thus obtained and, finally, adding the catalytic combination  $\gamma$ .

16. – 17. (Cancelled)

18. (Previously Presented) A method for adhesively assembling at least two elements comprising coating at least one of the elements to be assembled with a layer of an adhesive composition as claimed in claim 1, applying said elements against one another with said layer therebetween, and crosslinking said adhesive composition.

19. (Previously Presented) A method for adhesively assembling at least two elements consisting essentially of coating at least one of the elements to be assembled with a layer of an adhesive composition as claimed in claim 1, applying said elements against one another with said layer therebetween, and crosslinking said adhesive composition.

20. (Previously Presented) The method according to claim 18, wherein the crosslinking is carried out by heating.

21. (Previously Presented) The method according to claim 18, wherein the elements to be assembled are two in number.

22. (Previously Presented) The method according to claim 18, wherein one of the elements to be assembled is a woven, knitted or nonwoven fibrous material.

23. (New) The composition as claimed in claim 1, wherein R, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>1'</sup>, R<sup>2'</sup> and R<sup>3'</sup> represent:

- i. a linear or branched alkylene radical having 2 to 12 C,
- ii. an alkylene radical comprising one or more rings, in particular 1 or 2, wherein the rings have 5 to 8 C, or
- iii. an alkylene or alkylarylene radical comprising one or more fused or nonfused aromatic rings, in particular 1 or 2 rings, comprising from 6 to 8 C, optionally substituted by 1 or more, in particular from 1 to 2, linear or branched

alkylene(s) having in particular from 4 to 12 C.